

In re Patent Application of:
ZIARNO
Serial No. 10/774,578
Filing Date: 02/09/04

In the Claims:

1. (CURRENTLY AMENDED) A system for providing a record of the performance of an aircraft engine comprising:

an engine monitoring module mounted on the aircraft engine for collecting engine data relating to operation of the aircraft engine and a data address assigned to the engine monitoring module and linking the data address to an engine serial number for tracking the aircraft engine, said engine monitoring module further comprising a transmitter for transmitting the engine data over a wireless communications signal; and

a receiver for receiving the transmitted engine data.

2. (ORIGINAL) A system according to claim 1, wherein said transmitter comprises a spread spectrum transmitter for transmitting the engine data over a wideband spread spectrum communications signal.

3. (ORIGINAL) A system according to claim 1, and further comprising a conformal antenna mounted on the engine monitoring module through which the wireless communications signal is transmitted.

4. (ORIGINAL) A system according to claim 1, and further comprising a processor operative for receiving the engine data from said receiver for further processing of the engine data.

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5. (ORIGINAL) A system according to claim 4, and further comprising an internet for transferring the engine data from the receiver to said processor.

6. (ORIGINAL) A system according to claim 4, and further comprising a public switched telephone network for transferring the engine data from the receiver to said processor.

7. (ORIGINAL) A system according to claim 4, and further comprising a cellular network for transferring the engine data from the receiver to said processor.

8. (ORIGINAL) A system according to claim 4, and further comprising a transmitter operative with said receiver for transmitting said engine data from said receiver to said processor using a wireless communications signal.

9. (ORIGINAL) A system according to claim 1, and further comprising a FADEC/ECU operative with said aircraft engine for collecting engine data, wherein said engine monitoring module is electrically connected to said FADEC/ECU for collecting engine data.

10. CANCELLED

11. (CURRENTLY AMENDED) A system according to ~~claim 10~~ claim 1, wherein said data address comprises an internet address.

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12. (CURRENTLY AMENDED) A system for providing a record of the performance of an aircraft engine comprising:

an engine monitoring module mounted on the aircraft engine for collecting aircraft engine data relating to operation of the aircraft engine and a data address assigned to the engine monitoring module and linking the data address to an engine serial number for tracking the aircraft engine, said engine monitoring module further comprising a transceiver for transmitting the engine data and receiving data for onboard processing over a wireless communications signal; and a receiver for receiving the transmitted engine data.

13. (ORIGINAL) A system according to claim 12, wherein said transceiver comprises a spread spectrum transceiver for transmitting the engine data or receiving data for onboard processing over a wideband spread spectrum communications signal.

14. (ORIGINAL) A system according to claim 12, and further comprising a conformal antenna mounted on the engine monitoring module through which the wireless communications signal is transmitted and received.

15. (ORIGINAL) A system according to claim 12, and further comprising a processor operative for receiving the engine data from said receiver for further processing of the engine data.

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16. (ORIGINAL) A system according to claim 15, and further comprising an internet for transferring the engine data from the receiver to said processor.

17. (ORIGINAL) A system according to claim 15, and further comprising a public switched telephone network for transferring the engine data from the receiver to said processor.

18. (ORIGINAL) A system according to claim 15, and further comprising a cellular network for transferring the engine data from the receiver to said processor.

19. (ORIGINAL) A system according to claim 15, and further comprising a transmitter operative with said receiver for transmitting said engine data from said receiver to said processor using a wireless communications signal.

20. (ORIGINAL) A system according to claim 12, and further comprising a FADEC/ECU operative with said aircraft engine for collecting engine data, wherein said engine monitoring module is electrically connected to said FADEC/ECU for collecting engine data therefrom.

21. CANCELLED

22. (CURRENTLY AMENDED) A system according to ~~claim 21~~ claim 12, wherein said data address comprises an internet address.

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23. (CURRENTLY AMENDED) A wireless engine monitoring system comprising:

an aircraft engine; and

an engine monitoring module mounted on the aircraft engine and operative for collecting engine data relating to the performance of the aircraft engine and a data address assigned to the engine monitoring module and linking the data address to an engine serial number for tracking the aircraft engine, said engine monitoring module further comprising a transmitter for transmitting the engine data over a wireless communications signal.

24. (ORIGINAL) A wireless engine monitoring system according to claim 23, and further comprising a FADEC/ECU operative with the aircraft engine for collecting engine data from the aircraft engine, wherein said engine monitoring module is operative with said FADEC/ECU for collecting engine data therefrom.

25. (ORIGINAL) A wireless engine monitoring system according to claim 23, and further comprising a conformal antenna mounted on the engine monitoring module through which the wireless communications signal is transmitted.

26. CANCELLED

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27. (CURRENTLY AMENDED) A wireless engine monitoring system according to ~~claim 26~~ claim 23, wherein said data address comprises an internet address.

28. (CURRENTLY AMENDED) A wireless engine monitoring system comprising:

an aircraft engine; and

an engine monitoring module mounted on the aircraft engine and operative for collecting engine data relating to the performance of the aircraft engine and a data address assigned to the engine monitoring module and linking the data address to an engine serial number for tracking the aircraft engine, said engine monitoring module further comprising a transceiver for transmitting the engine data and receiving data for onboard processing over a wireless communications signal.

29. (ORIGINAL) A wireless engine monitoring system according to claim 28, and further comprising a FADEC/ECU operative with the aircraft engine for collecting engine data from the aircraft engine, wherein said engine monitoring module is operative with said FADEC/ECU for collecting engine data therefrom.

30. (ORIGINAL) A wireless engine monitoring system according to claim 28, and further comprising a conformal antenna mounted on the engine monitoring module through which the wireless communications signal is transmitted and received.

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31. CANCELLED

32. (CURRENTLY AMENDED) A wireless engine monitoring system according to ~~claim 31~~ claim 28, wherein said data address comprises an internet address.

33. (CURRENTLY AMENDED) A method of providing a record of the performance of an aircraft engine comprising the steps of:

collecting aircraft engine data within an engine monitoring module mounted on the aircraft engine while also assigning a data address to the engine monitoring module and linking the data address to an engine serial number for tracking the aircraft engine; and

downloading the engine data that has been collected in the engine monitoring module over a wireless communications signal to a receiver.

34. (ORIGINAL) A method according to claim 33, and further comprising the step of downloading the engine data over a wideband spread spectrum communications signal.

35. (ORIGINAL) A method according to claim 33, and further comprising the step of transmitting the wireless communications signal via a conformal antenna mounted on the engine monitoring module.

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36. (ORIGINAL) A method according to claim 33, and further comprising the step of transferring the engine data from the receiver to a processor for further processing.

37. (ORIGINAL) A method according to claim 36, and further comprising the step of transferring the engine data using the internet.

38. (ORIGINAL) A method according to claim 36, and further comprising the step of transferring the engine data using a public switched telephone network.

39. (ORIGINAL) A method according to claim 36, and further comprising the step of transferring the engine data using a cellular network.

40. (ORIGINAL) A method according to claim 36, and further comprising the step of transferring the engine data using a wireless signal.

41. (ORIGINAL) A method according to claim 33, and further comprising the step of collecting engine data from a FADEC/ECU operative with the aircraft engine.

42. CANCELLED

43. (CURRENTLY AMENDED) A method according to ~~claim 42~~ claim 33, wherein the data address comprises an internet address.

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44. (CURRENTLY AMENDED) A method of providing a record of the performance of an aircraft engine comprising the steps of:

collecting aircraft engine data within an engine monitoring module mounted on the aircraft engine while also assigning a data address to the engine monitoring module and linking the data address to an engine serial number for tracking the aircraft engine; and

downloading the engine data that has been collected in the engine monitoring module over a wireless communications signal to a receiver ~~and/or uploading~~ or uploading data for onboard processing.

45. (ORIGINAL) A method according to claim 44, and further comprising the step of downloading the engine data and/or uploading data for onboard processing over a wideband spread spectrum communications signal.

46. (ORIGINAL) A method according to claim 44, and further comprising the step of transmitting and/or receiving the wireless communications signal via a conformal antenna mounted on the engine monitoring module.

47. (ORIGINAL) A method according to claim 44, and further comprising the step of transferring the engine data from the receiver to a processor for further processing.

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48. (ORIGINAL) A method according to claim 47, and further comprising the step of transferring the engine data using the internet.

49. (ORIGINAL) A method according to claim 47, and further comprising the step of transferring the engine data using a public switched telephone network.

50. (ORIGINAL) A method according to claim 47, and further comprising the step of transferring the engine data using a cellular network.

51. (ORIGINAL) A method according to claim 47, and further comprising the step of transferring the engine data using a wireless signal.

52. (ORIGINAL) A method according to claim 44, and further comprising the step of collecting engine data from a FADEC/ECU operative with the aircraft engine.

53. CANCELLED

54. (CURRENTLY AMENDED) A method according to ~~claim 53~~ claim 44, wherein the data address comprises an internet address.